Year 7 Science Course Outline: 2010

| **Term/ Week** | **Date** | **Content** | **Pracs/ Demos/ Activities/ Video / Excursions** | **Assessment / Classwork / Homework** |
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| **1**/1 | 1 Feb | Working in the lab  1 Rules, expectations  2 Assessment tasks / workbook  3 Getting to know each other |  |  |
| 2 | 8 Feb | Lab equipment, drawing, naming  Safety in the lab, disposal of chemicals | Ac: Naming equipment p9  Ac: Poster on one safety rule  Ac: Wordsearch, Xword, glossary/diagrams | CQ p8 |
| 3 | 15 Feb | Using a Bunsen burner  Writing lab reports | P: Making milk glue p14  Ac: Bunsen burner p11 | P: “milk glue” p14 |
| 4 | 22 Feb | Observing and recording, importance and method | Ac: Observing and recording p16-17 | MI/ReviewQ p21-22  Ch test from teachers’ disk |
| 5 | 1 Mar | Science skills  Inferring and predicting | P: pendulum prac (revised, see WBL)  D: candle Demo (see NHI) | P: pendulum prac p26  CQ p27-28 |
| 6 | 8 Mar | Measuring | D: Measure Matter/parallax/accuracy /errors.  Volume, Mass, Time, Temperature.  (SciQuest1 p50)  ICT/As: Unusual Measuring instrument profile. (Personal research Assignment) | Ac. “Measuring Things” p31. CQp.34-36.  P “Boiling Water” p34  ICT Assignment (use to graph results) |
| 7 | 15 Mar | Displaying Data. Tables and Graphs. | Bar and Line Graphs p27-38 | CQ p.38.  P ”Reaction Times” p40 |
| 8 | 22 Mar | Term Review and Testing | Main Ideas and Review Ch 2. | p41-42.  Ch test from Teachers’ disk |
| **Holidays** | 29 Mar-11 Apr |  |  |  |
| **2**/9.1 | 12 Apr | Ch3: Chemical Reactions  Observing reactions, reactants and products, reaction rate | P/D: Observing reactions p45  Reaction rates prac report  ALSO: Science Talent Search | Ac: Wordsearch, Xword, glossary/diagrams  CQ: p51 |
| 10.2 | 19 Apr | Common Gasses: H2, O2, CO2 | P: making H2, p54  P: making O2, p55  P: making CO2, p57 | CQ: p60 |
| 11.3 | 26 Apr | Unit test (without greenhouse gasses)  Greenhouse gasses | Ac/As: Greenhouse gasses research assignment | Ch review, MI, p62  Ch3 unit test |
| 12.4 | 3 May | Unit test | Greenhouse gasses, ICT/library research | Research reports |
| 13.5 | 10 May | Ch4: Seeing and Hearing  Properties of light and sound  Reflections, Shadows | Ac: Shadows, p70  Ac/P: Reflections, p72 | CQ: p73  Prac reports |
| 14.6 | 17 May | Eyes and seeing | P: Eye dissection (use a fresh, never frozen eye and sharp blades!)  Ac/P: Lenses and light | CQ: p70  Prac reports |
| 15.7 | 24 May | Problems with eye  Sound and hearing  How sound is made/heard  Structure of the ear | ICT: ‘cataracts’ webwatch p79  Ac: making a working musical instrument | ICT report  RevQ: p88 |
| 16.8 | 31 May | Problems with ear  Music | Ac: revision, | Ch4 unit test |
| 17.9 | 7 Jun |  | Ac: Musical ‘performance’ and peer assmnt | AT: musical instrument (inc. peer assess.) |
| 18.10 | 14 Jun | Soundwaves | Ac: water waves and diffraction, speed | Mid year reports due 15th June! |
| 19.11 | 21 Jun | Forces, Ch 5  Balanced/unbalanced forces | P: ‘everyday forces’ p92  Ac: ‘try this’ part3, p98 | CQ: p97 |
| **Holidays** | 28 Jun- 11 Jul |  |  | ‘try this’ p98 (holiday HW) |
| **3/**20.1 | 12 Jul | Measuring forces  Friction | Ac: ‘measuring friction’ p99 | ‘try this’ p104 part1 |
| 21.2 | 19 Jul | Reducing friction  Friction in everyday life | Demo: reducing friction p102 CQ1 | CQ p102 |
| 22.3 | 26 Jul | Perpetual motion  Gravity | Ac: p106  ICT: p104 | CQ p109  RevQ p110  Ch 5 unit test |
| 23.4 | 2 Aug | The living world Ch7  Classifying things | Ac: ‘getting started’ group things (e.g., contents of pencil case)  Ac: p131 dot points  Ac: p133, activity 1 | CQ: p137 |
| 24.5 | 9 Aug | Animal keys  What makes living things alive? | Ac: buttons, p133  Ac: classify random objects  P: animal keys p137 | CQ: p145 |
| 25.6 | 16 Aug | 5 kingdoms | P: classify organisms |  |
| 26.7 | 23 Aug | Animal kingdom  Plant kingdom | ICT: webwatch p142  P144 |  |
| 27.8 | 30 Aug | Observing animals | P: observing animals | RevQ: p154  Ch7 unit test |
| 28.9 | 6 Sep | Ch6 Magnets  Magnetic force  Magnet facts | P: magnets and materials p113-4 | MI: p129  CQ: p115-6  CgQ: p116 |
| 29.10 | 13 Sep | Magnetism  Magnetic fields  The magnetic Earth | P: magnetism & iron filings p117-118 | Q’s from p118  ICT/holiday HW ‘use of a magnet in an instrument’ |
| **Holidays** | 18 Sep- 3 Oct |  |  | holiday HW ‘use of a magnet in an instrument’ |
| **4/**30.1 | 4 Oct | Magnetic shielding | Ac: presentations of holiday HW ‘magnetic instruments’ | AT: holiday HW (peer ass.) |
| 31.2 | 11 Oct |  | P: Mag shielding p121 | CQ: p122, 127  CgQ: p122-3 |
| 32.3 | 18 Oct | Electricity and magnets | P: electricity and magnetism, p125  Ac: maglev train p127 | RevQ: p129-30  CQ: p127  Ch6 unit test |
| 33.4 | 25 Oct | Ch10 Living things and places  Food chains  Photosynthesis  Living in a food web p199 | Ac: p199  P: photosynthesis ‘testing for O2’ p201  P: ‘testing for CO2’ p201 | Prac reports  Main Ideas p219  Glossary |
| 34.5 | 25 Oct | Living places p208 | Ac: p205 ‘food webs’ |  |
| 35.6 | 1 Nov | Living in groups p214  Producers and consumers  Food webs  Dead things: scavengers and decomposers | Ac: p208, 216  ICT: p209, 215 (mouse plague) | CQ: p206  CgQ: p213 q1  AT: ‘find aphids in your garden’ (may need warmer weather, check roses for aphids, lacewings, ladybugs, ‘mummies’/aphidiuses) p215 |
| 36.7 | 8 Nov | Survival  Ecosystems | Ac: p211  ICT: webwatch p212 | CQ: p213, 217  CgQ: p218 |
| 37.8 | 15 Nov | Populations and communities | Ac: p216 | RevQ: p219  Ch10 unit test |
| 38.9 | 22 Nov | Animals and plants | Excursion: Zoo | Scav Q’s for prizes |
| 39.10 | 29 Nov |  |  | REPORTS DUE DEC 2nd! |
| 40.11 | 6 Dec | Animals and plants | Excursion: Zoo  Ac: ‘check your pet for parasites!’  Ac: terrarium p209 | Scav Q’s for prizes  Report on your garden pests |
| 41.12 | 13 Dec |  | Excursion: Maribyrnong river micro/macro environments, a living environment  (see p203-4 | Reports: for prizes |

WS Worksheet; HW Homework; As Assessment; CQ Check / Challenge Questions (or Class Questions); P Prac; V Video or DVD; ClickView streaming video; Ch Chapter; Ac Activity; ICT Information Communications Technology (Computers);